



U.S. DEPARTMENT OF  
**ENERGY**

OFFICE OF  
ENVIRONMENTAL  
MANAGEMENT

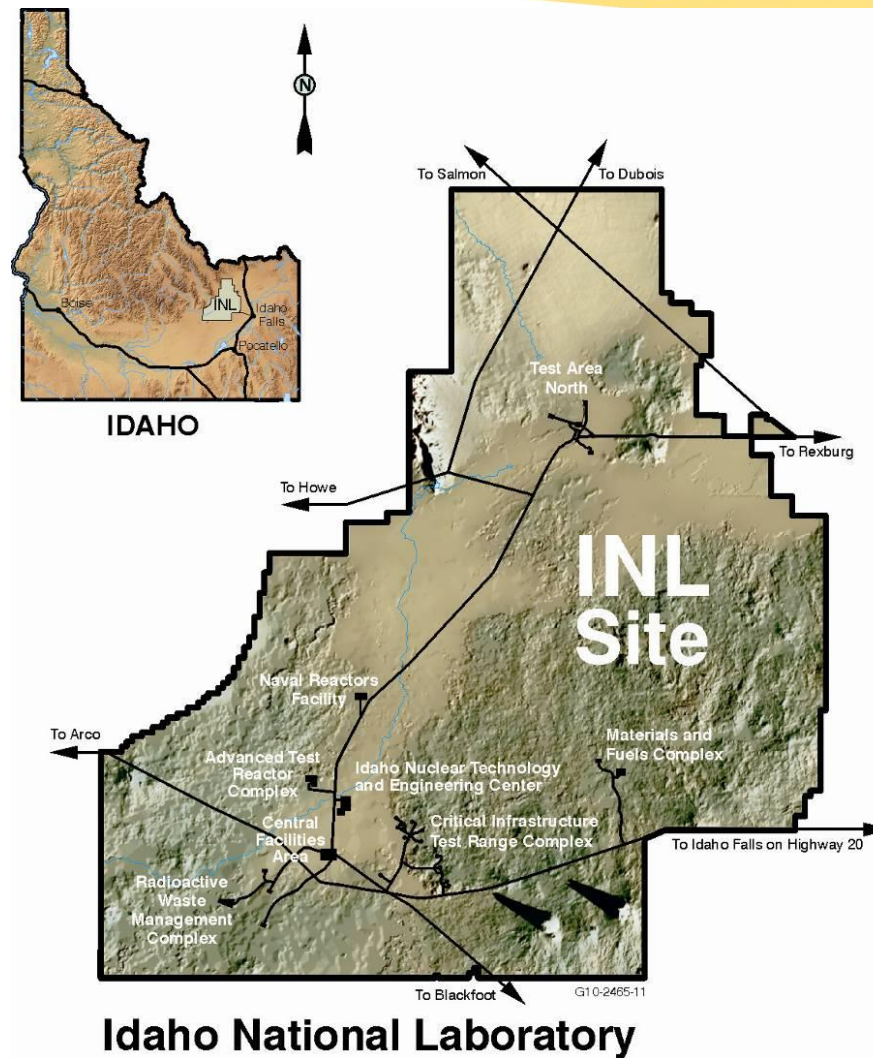
# Idaho Cleanup Project (ICP) OVERVIEW

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**Richard Craun**  
**Principal Deputy Manager**

December 4, 2013

# Site Map









**1949**

National Reactor  
Testing Station  
established



**1952**

Materials Test Reactor  
begins critical operation

1950

1955

1960

1965



**1951**

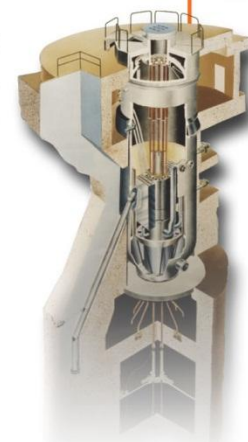
Experimental  
Breeder Reactor I  
produces electricity



**1955**

Arco, Idaho powered  
by BORAX III reactor

**1967**  
Advanced Test Reactor  
begins critical operation





# INL Site History



**1968**  
National Reactor  
Testing Station  
Supercomputing  
Center built



**1978**  
Loss of Fluid Test (LOFT) engineers conduct  
facility's first nuclear test

**1981**  
INEL's Raft River  
Geothermal Pilot Plant  
starts up

1970

1975

1980

1985

**1974**  
NRTS renamed Idaho National  
Engineering Laboratory



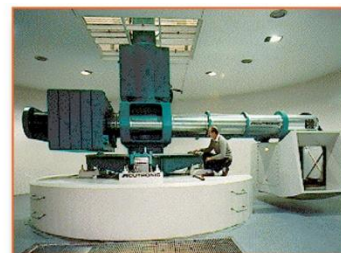
**1984**  
INEL Research  
Center dedicated



**1997**  
DOE assigns Idaho  
lead lab status for  
nuclear reactor  
development



**2002**  
Standup of new  
Geocentrifuge  
Research  
Laboratory



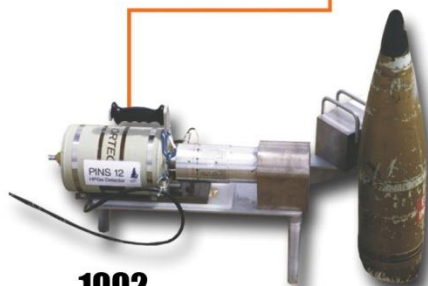
1990

1995

2000

2005

2010



**1992**  
INEL-developed PINS  
selected for R&D 100  
award



**2001**  
Idaho's STAR Fusion Facility  
named National User Facility

**2005**  
INEEL and ANL-W  
combined to create  
new Idaho National  
Laboratory

**2008**  
High burnup fuel  
reaches performance  
milestone



## Idaho Settlement Agreement

- All TRU waste removed from Idaho by 2018
- All spent fuel placed in dry storage by 2023
- Remove all spent fuel from Idaho by 2035
- High-level waste road-ready to remove from Idaho by 2035

## RCRA - Site Treatment Plan

- Provides framework for mixed waste management at Idaho Site including Calcine

## CERCLA - Federal Facility Agreement/Consent Order

- Governs environmental restoration activities
- Governs Sub-surface Disposal Area (SDA)/Accelerated Retrieval Project (ARP), Tank Farm capping, TAN Groundwater, and all CERCLA sites



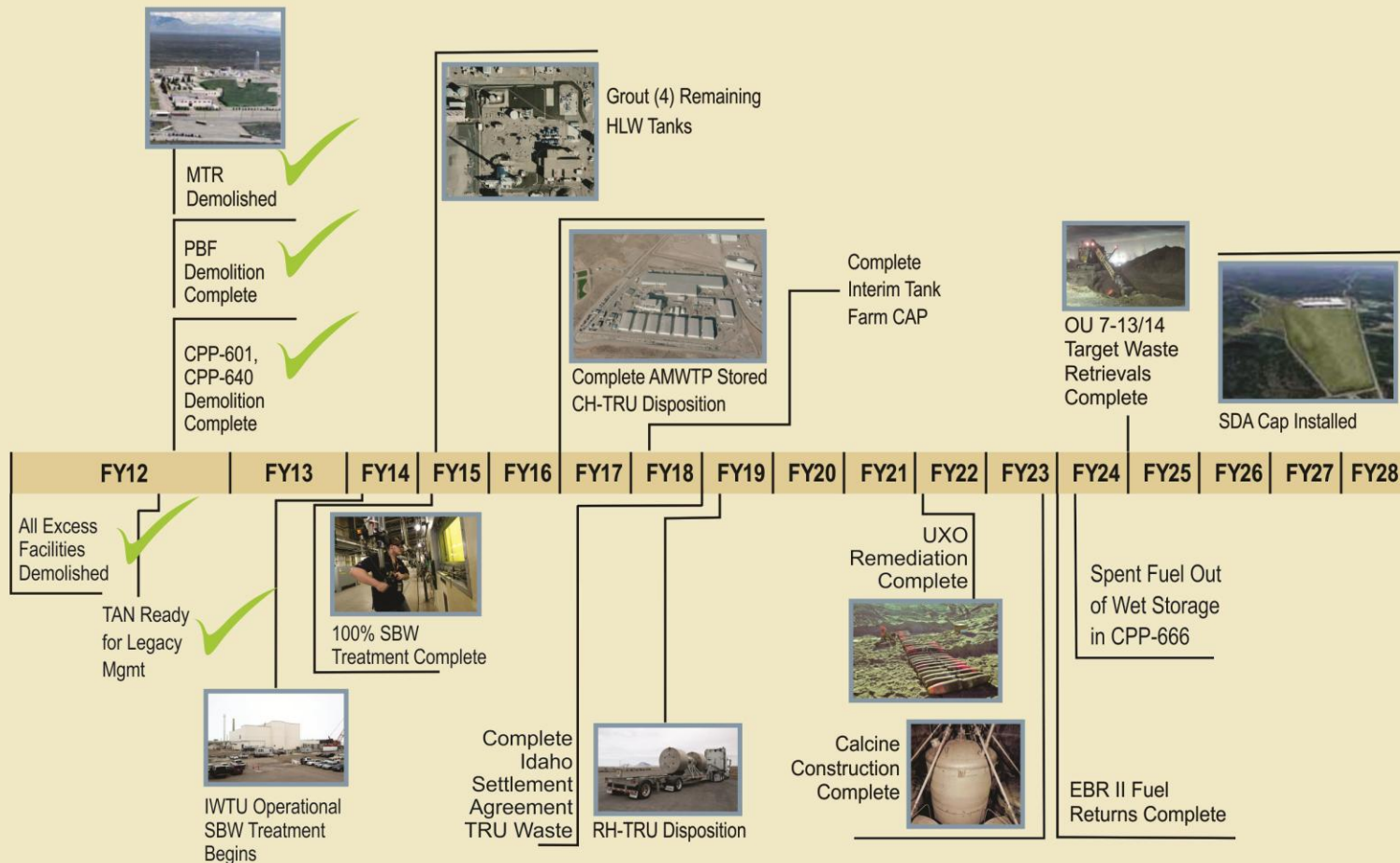
## RCRA Notice of NonCompliance/Consent Order

- Requires closure of final four of 11 large Tank Farm Tanks

## General Compliance Drivers

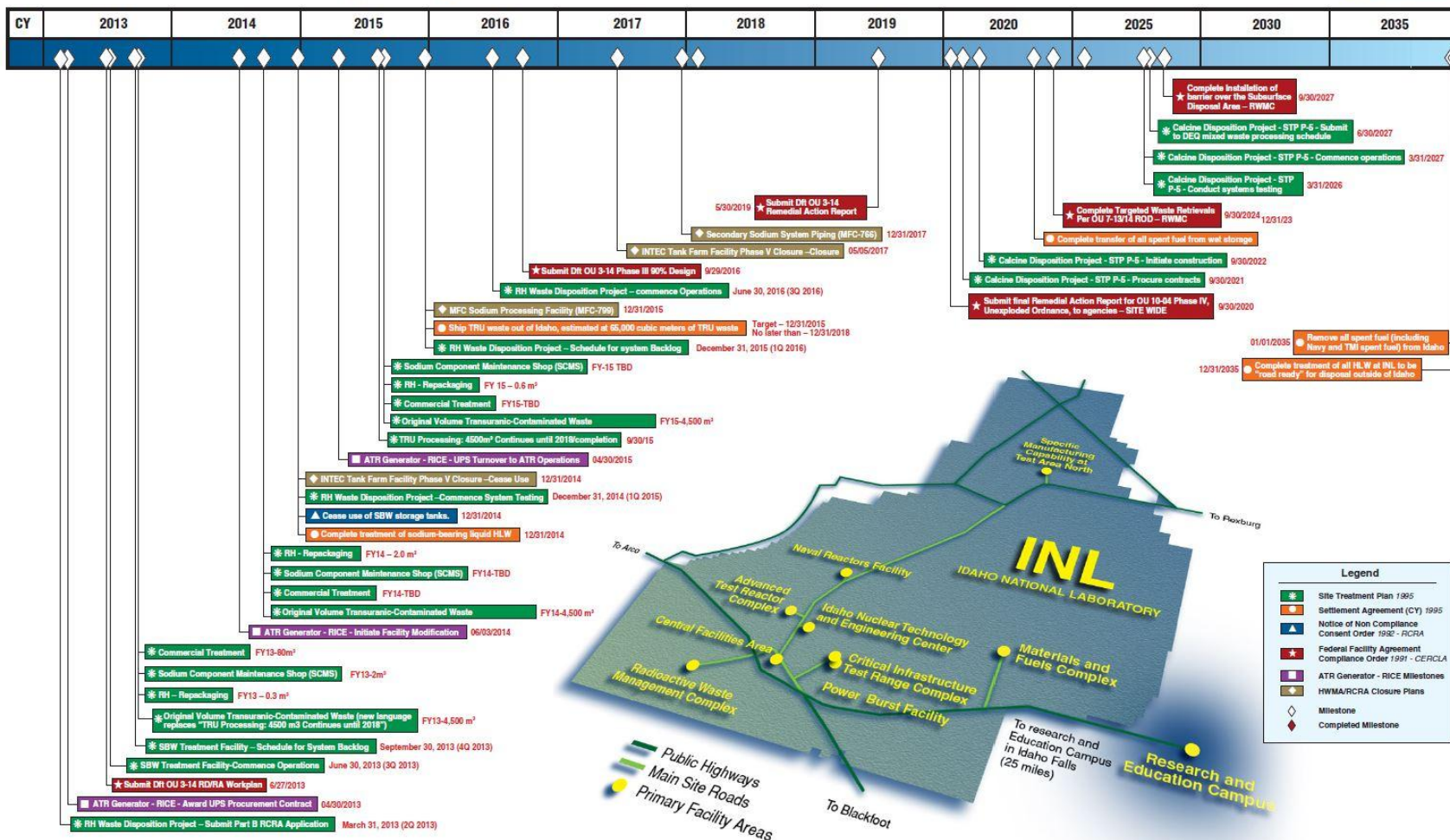
- Laws, Regulations, DOE Orders
- Permits
- Closure plans
- Implementing documents for CERCLA Records of Decision

## Idaho Forecast Cleanup Project Major Milestones



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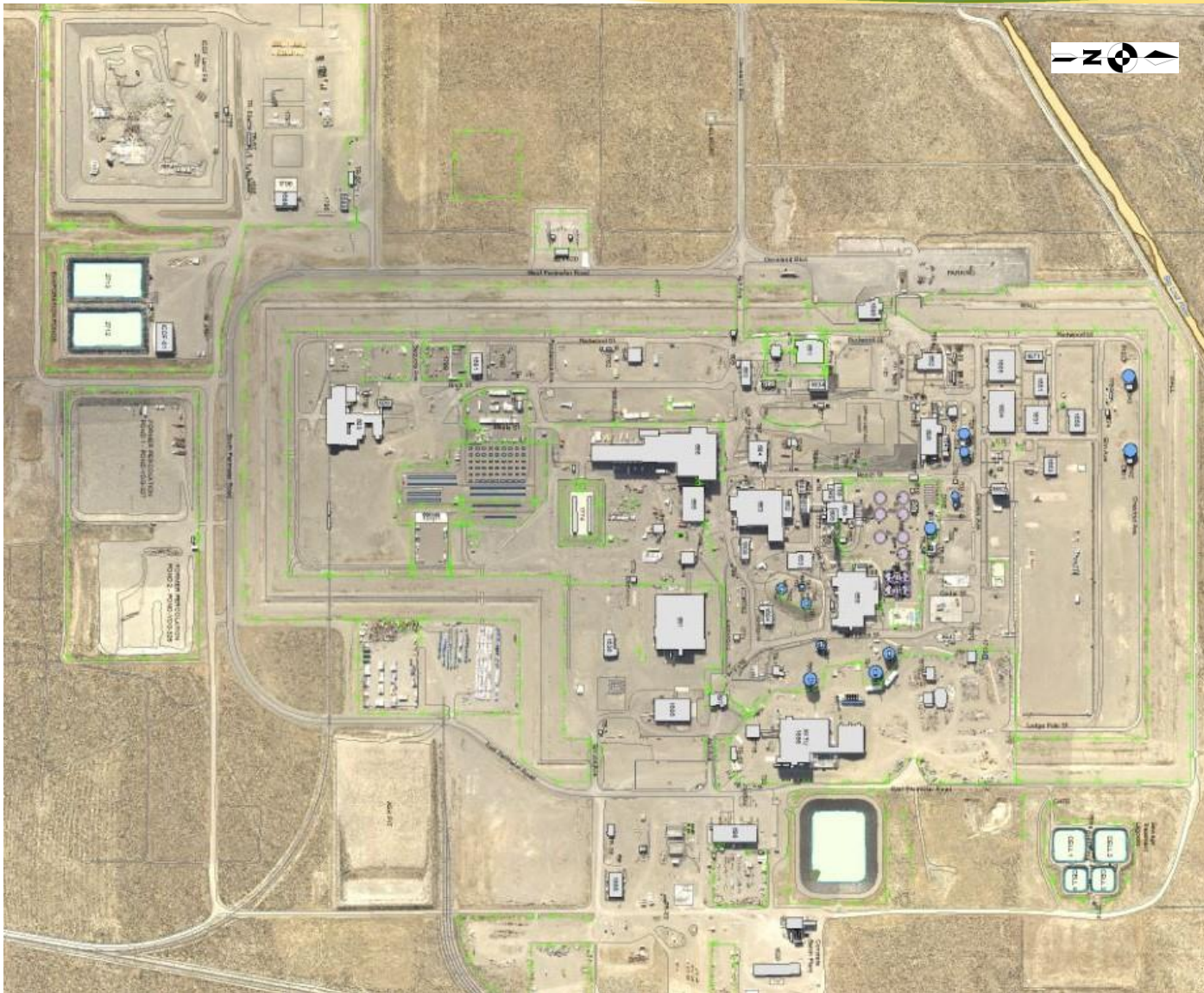
# DOE Idaho Site Major Agreement Milestones



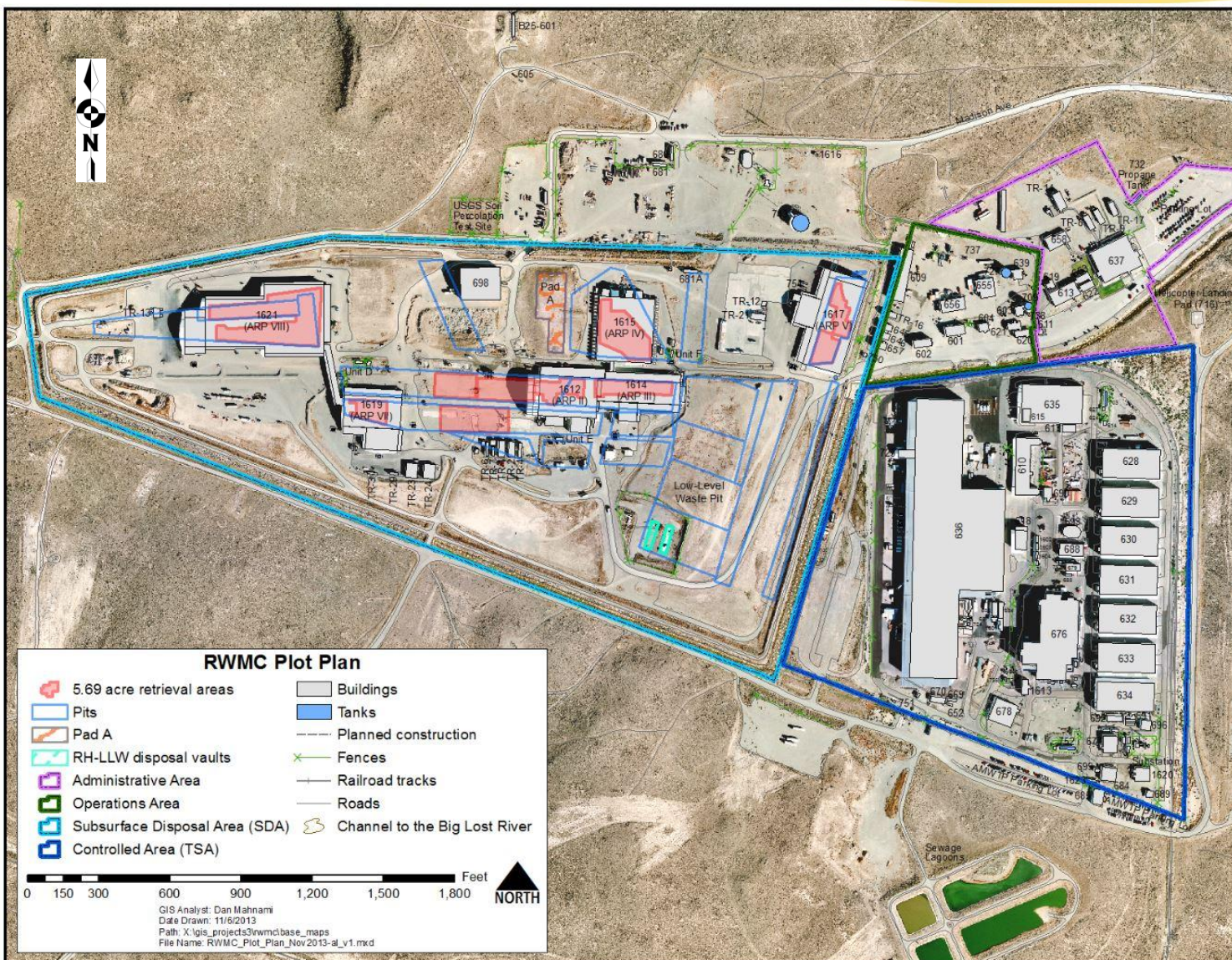


# Elements of Scope

1. Safety
2. Spent Nuclear Fuel
3. Solid Waste Management
4. Decontamination and Decommissioning (D&D)
5. Environment
6. Site Infrastructure
7. Calcine Disposition Project
8. Pension, Labor, and Insurance Landscape









# Materials and Fuels Complex

